## IN THE CLAIMS:

The following is a complete list of the claims now pending; this listing replaces all earlier versions and listings of the claims.

Claim 1 (currently amended): An information processing apparatus for generating printing data to be transmitted to a printing apparatus, comprising:

spool means for temporarily storing data to be printed, generated by an application program, in an intermediate-code format with first print-setting information designated via a user interface by a printer driver, wherein the data to be printed is generated by an application program;

setting-information obtaining means for obtaining the first printsetting printing-setting information from the data temporarily stored in said spool means in the intermediate-code format;

display control means for controlling such that to display a user interface for editing the <u>first print-setting printing-setting</u> information of the data temporarily stored <u>in said spool means</u> in the intermediate-code format is <u>displayed</u> as <u>second print-setting information</u>; and

setting edit means for relating printing settings the second printsetting information edited by the user interface to the data stored in the intermediate-code
format and for temporarily storing them[[,]]; and

print job generation means for generating a print job described in a

page description language based on the data stored in said spool means in the intermediate
code format and the edited print setting,

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wherein said display control means controls such that a change of printing settings to restrict items of the first print-setting information and to display other items of the first print-setting information which can be edited by the user interface is restricted and the printing settings are displayed.

Claim 2 (currently amended): An information processing apparatus according to Claim 1, further comprising print job combining means for combining a plurality of printing print jobs temporarily stored in said spool means for the data to be printed, converted to the intermediate-code format, into one job,

wherein the user interface can edit printing the first print settings for the combined job.

Claim 3 (currently amended): An information processing apparatus according to Claim claim 2, wherein said display control means controls such that a second user interface for editing layout settings, which are printing settings for which editing is restricted, for of each combined job is displayed, wherein the editing layout settings are print settings in which editing is restricted.

Claim 4 (currently amended): An information processing apparatus according to Claim claim 1, wherein the printing print settings for which editing is restricted by said display control means includes printing print settings related to printing quality.

Claim 5 (currently amended): An information processing apparatus according to Claim claim 1, further comprising restriction-information restriction obtaining means for obtaining the restriction information of printing the print settings,

wherein said display control means restricts a changed of printing change in the print settings, which can be edited by the user interface, according to the restriction information.

Claim 6 (currently amended): An information processing apparatus according to Claim claim 1, further comprising printing-data generation means for generating printing data to be transmitted to the printing apparatus, according to the data temporarily stored in said spool means in the intermediate-code format.

Claim 7 (currently amended): An information processing apparatus according to Claim 6, further comprising:

description-instruction first printing instruction generation means for converting the data temporarily stored in said spool means in the intermediate-code format into description first printing instructions which can be interpreted by an the description means of the operating system can interpret and description means for outputting second printing instructions; and

printing-instruction allocation means for passing communicating a second printing instruction received from the application program through the description means of the operating system description means[[,]] to said spool means, and for passing communicating a second printing instruction received from said description-instruction

<u>first printing instruction</u> generation means through the <u>description means of the</u> operating system <u>description means</u>[[,]] to said printing-data generation means.

Claim 8 (currently amended): An information processing apparatus according to Claim claim 7, wherein the description first printing instructions are graphic-driver-interface (GDI) graphic device interface functions, the second printing instructions are device-driver-interface (DDI) functions, and the printing data is written in a printer language.

Claim 9 (currently amended): An information processing method for generating printing data to be transmitted <u>from an information processing apparatus</u> to a printing apparatus, <u>said method</u> comprising:

an intermediate-data conversion step, of converting data to be printed, generated by an application program into data having an intermediate-code format with first print-setting information designated via a user interface by a printer driver to temporarily store it, wherein the data to be printed is generated by an application program;

a setting-information obtaining step, of obtaining the first printsetting printing-setting information from the data temporarily stored in the intermediate-code format;

a display control step, of controlling such that to display a user interface for editing the first print-setting printing-setting information of the data temporarily stored in the intermediate-code format is displayed as second print-setting information; and

a setting edit step, of relating printing settings the second printsetting information edited by the user interface to the data stored in the intermediate-code format and of temporarily storing them[[,]]; and

a print job generation step, of generating a print job described in a page description language based on the data stored in the intermediate-code format and the edited print setting,

wherein said display control step controls such that a change of printing settings to restrict items of the first print-setting information and to display the other items of the first print-setting information which can be edited by the user interface is restricted and the printing settings are displayed.

Claim 10 (currently amended): An information processing method according to Claim claim 9, further comprising a print job combining step, of combining a plurality of temporarily-stored printing print jobs for to the data to be printed; converted to the intermediate-code format, into one job,

wherein the user interface can edit the first print printing settings for the combined job.

Claim 11 (currently amended): An information processing method according to Claim claim 10, wherein said display control step controls such that a second user interface for editing layout settings, which are printing settings for which editing is restricted, for of each combined job is displayed, wherein the editing layout settings are print settings in which editing is restricted.

Claim 12 (currently amended): An information processing method according to Claim claim 9, wherein the printing print settings for which editing is restricted in said display control step includes printing print settings related to printing quality.

Claim 13 (currently amended): An information processing method according to Claim claim 9, further comprising a restriction-information restriction obtaining step, of obtaining the restriction information of printing the print settings,

wherein said display control step restricts a change of printing in the print settings, which can be edited by the user interface, according to the restriction information.

Claim 14 (currently amended): An information processing method according to Claim claim 9, further comprising a printing-data generation step of generating printing data to be transmitted to the printing apparatus, according to the data temporarily stored in the intermediate-code format.

Claim 15 (currently amended): An information processing method according to Claim claim 14, further comprising:

a description-instruction first printing instruction generation, step of converting the data temporarily stored in the intermediate-code format into description first printing instructions which can be interpreted by an the description means of the operating

system <u>description means</u> can interpret and for outputting the <u>second printing</u> instructions; and

a printing-instruction allocation step, of passing communicating a second printing instruction received from the application program through the description means of the operating system description means[[,]] to the information processing apparatus spool means said intermediate-data conversion step, and of passing a communicating the first printing instruction received from generated in said description-instruction first printing instruction generation step through the description means of the operating system description means[[,]] to said printing-data generation step the information processing apparatus printing-data generation means.

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Claim 16 (currently amended): An information processing method according to Claim claim 15, wherein the description first printing instructions are graphic-driver-interface (GDI) graphic device interface functions, the second printing instructions are device-driver-interface (DDI) functions, and the printing data is written in a printer language.

Claim 17 (currently amended): A computer-executable program for executing a method for generating printing data to be transmitted form an information processing apparatus to a printing apparatus, said program comprising:

code for an intermediate-data conversion program code step, of converting data to be printed, generated by an application program into data having an intermediate-code format with first print-setting information designated via a user interface

by a printer driver to temporarily store it, wherein the data to be printed is generated by an application program;

code for a setting-information obtaining program code step, of obtaining the first print-setting printing-setting information from the data temporarily stored in the intermediate-code format;

code for a display control program code step, of controlling such that to display a user interface for editing the first print-setting printing-setting information of the data temporarily stored in the intermediate-code format is displayed as second print-setting information; and

code for a setting edit program code step, of relating printing settings
the second print-setting information edited by the user interface to the data stored in the
intermediate-code format and of temporarily storing them[[,]]: and

code for a print job generation step, of generating a print job

described in a page description language based on the data stored in the intermediate-code

format and the edited print setting,

wherein said display control program code step controls such that a change of printing settings to restrict items of the first print-setting information and to display the other items of the first print-setting information which can be edited by the user interface is restricted and the printing settings are displayed.

Claim 18 (currently amended): A computer-executable program according to Claim 17, further comprising code for a print job combining program code step, of

combining a plurality of temporarily-stored printing print jobs for the data to be printed, converted to the intermediate-code format, into one job,

wherein the user interface can edit printing the first print settings for the combined job.

Claim 19 (currently amended): A computer-executable program according to Claim 18, wherein said display control program code step controls such that a second user interface for editing layout settings, which are printing settings for which editing is restricted, for of each combined job is displayed, wherein the editing layout settings are print settings in which editing is restricted.

Claim 20 (currently amended): A computer-executable program according to Claim 17, wherein the printing print settings for which editing is restricted by said display control program code includes printing print settings related to printing quality.

Claim 21 (currently amended): A computer-executable program according to Claim 17, further comprising code for a restriction-information restriction obtaining program code step, of obtaining the restriction information of printing the print settings,

wherein said display control program code step restricts a change of printing in the print settings, which can be edited by the user interface, according to the restriction information.

Claim 22 (currently amended): A computer-executable program according to Claim 17, further comprising a printing-data generation program code of generating printing data to be transmitted to the printing apparatus, according to the data temporarily stored in the intermediate-code format.

Claim 23 (currently amended): A computer-executable program according to Claim 22, further comprising:

a description-instruction code for a first printing instruction
generation program code step, of converting the data temporarily stored in the
intermediate-code format into description first printing instructions which can be
interpreted by an the description means of the operating system description means can
interpret and for outputting the second printing instructions; and

code for a printing-instruction allocation program code step, of passing communicating a second printing instruction received from the application program through the description means of the operating system description means[[,]] to the information processing apparatus spool means said intermediate-data conversion program code, and of passing a communicating the first printing instruction received from in said description-instruction first printing instruction generation program code step through the description means of the operating system description means[[,]] to said printing-data generation program code the information processing apparatus printing-data generation means.



Claim 24 (currently amended): A computer-executable program according to Claim 23, wherein the description first printing instructions are graphic-driver-interface (GDI) graphic device interface functions, the second printing instructions are device-driver-interface (DDI) functions, and the printing data is written in a printer language.

Claim 25 (currently amended): A storage medium for storing a computer-readable program for executing a method of generating printing data to be transmitted from an information processing apparatus to a printing apparatus, the said program comprising:

code for an intermediate-data conversion program code step, of converting data to be printed, generated by an application program into data having an intermediate-code format with first print-setting information designated via a user interface by a printer driver to temporarily store it, wherein the data to be printed is generated in an application program;

code for a setting-information obtaining program code step, of obtaining the first print-setting printing-setting information from the data temporarily stored in the intermediate-code format;

code for a display control program code step, of controlling such that to display a user interface for editing the first print-setting printing-setting information of the data temporarily stored in the intermediate-code format is displayed as second print-setting information; and

code for a setting edit program code step, of relating printing settings
the second print-setting information edited by the user interface to the data stored in the
intermediate-code format and of temporarily storing them[[,]]: and

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code for a print job generation step, of generating a print job

described in a page description language based on the data stored in the intermediate-code

format and the edited print setting,

wherein said display control program code step controls such that a change of printing settings to restrict items of the first print-setting information and to display the other items of the first print-setting information which can be edited by the user interface is restricted and the printing settings are displayed.